



DESIGNED & SEALED BY  
N.Y. P.E. (OR R.A.)

**CONFORMED**  
28/98

**Ram Communications**  
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**XENON CO.**  
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### STEEL NOTES

1. ALL STRUCTURAL STEEL SHAPES & PLATES SHALL BE NEW, HOT ROLLED STEEL AND CONFORM TO ASTM A-36.
2. GUSSETS SHALL BE 3/8" THICK MINIMUM.
3. ALL BOLTS SHALL BE 3/4" DIA ASTM A-325 100% STRENGTH BOLTS, WITH HEAVY DUTY NUTS & HARDENED WASHERS, UNLESS NOTED.
4. BOLT HOLE SIZE SHALL BE 1/16" LARGER THAN THE RESPECTIVE BOLT SIZE.
5. WELDING ELECTRODES SHALL BE E70XX TYPE.
6. CONTRACTOR SHALL SUBMIT ERECTION & SHOP DETAIL DRAWINGS FOR APPROVAL PRIOR TO STARTING FABRICATION.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO STARTING SHOP DETAIL DRAWINGS.
8. ALL FIELD CONNECTIONS SHALL BE BOLTED.
9. ALL CONNECTIONS INCLUDING THOSE TO EXIST STEEL SHALL CONFORM TO AISC DETAILING MANUAL, LATEST EDITION, USING MIN 2 BOLTS AT EACH CONNECTION.
10. ALL WORK SHALL CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION.
11. STRUCTURAL STEEL PAINTING SHALL CONFORM TO SPEC. #09910.
12. PAINT SYSTEM SHALL CONFORM TO THE APPENDIX C TO THIS SPECIFICATION AND SHALL HAVE A MINIMUM THICKNESS OF 2 MILS DFT PER COAT.

### CONCRETE NOTES

1. CONCRETE WORK SHALL CONFORM TO THE BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE (AD 318-89) AND SHALL COMPLY WITH ALL LOCAL LAWS AND ORDINANCES.
2. CONCRETE SHALL BE CLASS 'D', CONFORMING TO SPEC #03300.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 (Fy=60 KSI).
4. CONCRETE PROTECTION FOR REINFORCEMENT SHALL CONFORM TO AD 318-89.
5. ALL EXPOSED CONCRETE SURFACES SHALL BE FORMED WITH PLYWOOD OR METAL IN GOOD CONDITION. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.
6. ALL GROUT SHALL BE NON-SHINKING AND NON-METALLIC TYPE, CONFORMING TO SPEC 03607.

### LEGEND & ABBREVIATIONS

---	EXISTING STRUCTURE
---	NEW STRUCTURE
---	WIRE MESH PARTITION
---	SEISMIC BRACING IN DIRECTION SHOWN
---	SEISMIC BRACING IN BOTH DIRECTION
---	EXHAUST FAN
---	AIR HANDLING UNIT
---	ADDITIONAL
---	ASSEMBLY
---	BOTTOM
---	BRACING
---	COMPOSITE BEAM
---	CONCRETE
---	EA
---	ENCLOSURE
---	EXIST
---	EXP.
---	EXPANSION
---	LIGHTING FIXTURE
---	FLOOR
---	FIREPROOF
---	CAGE
---	MECHANICAL
---	HANGERS
---	ID
---	INSIDE DIAMETER
---	MARK
---	OUTSIDE DIAMETER
---	PLATE
---	THICK
---	SCH
---	TYPICAL SUPPORT
---	VERIFY IN FIELD

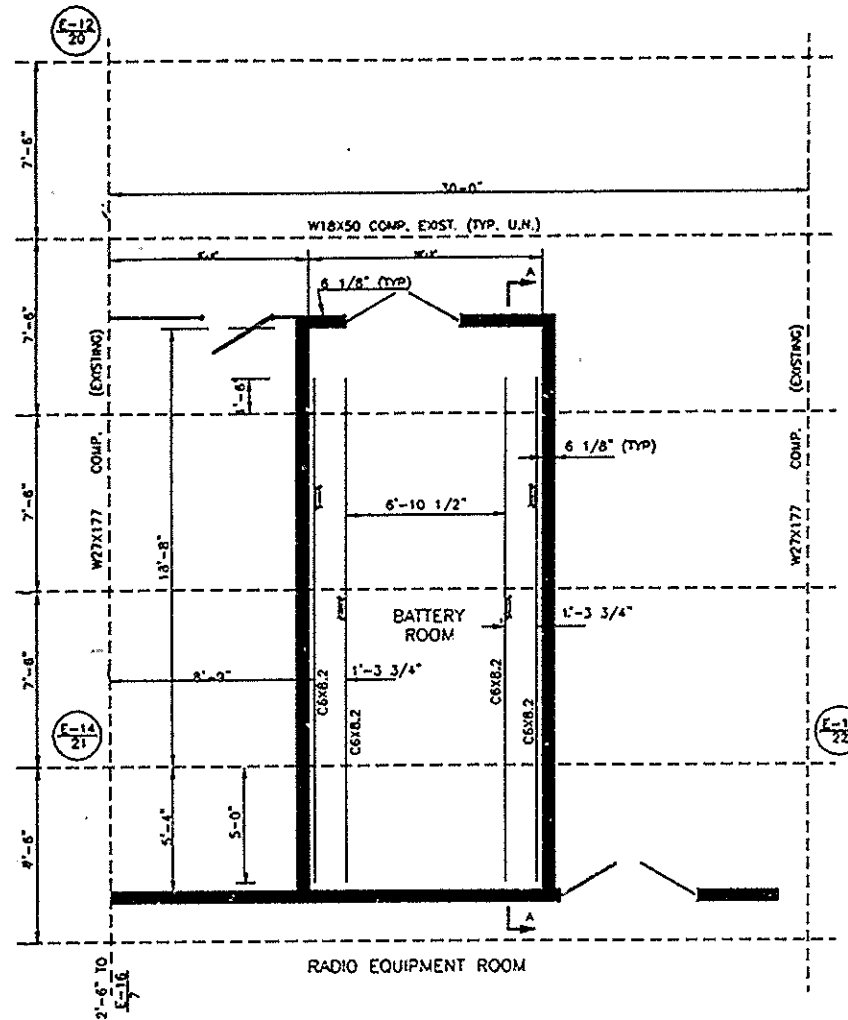
**The World Trade Center**

**STANDBY POWER**  
**5 WORLD TRADE CENTER**

**COMMUNICATIONS**  
**LEGEND, ABBREVIATIONS**  
**AND NOTES**  
**BATTERY ROOM SUPPORT**

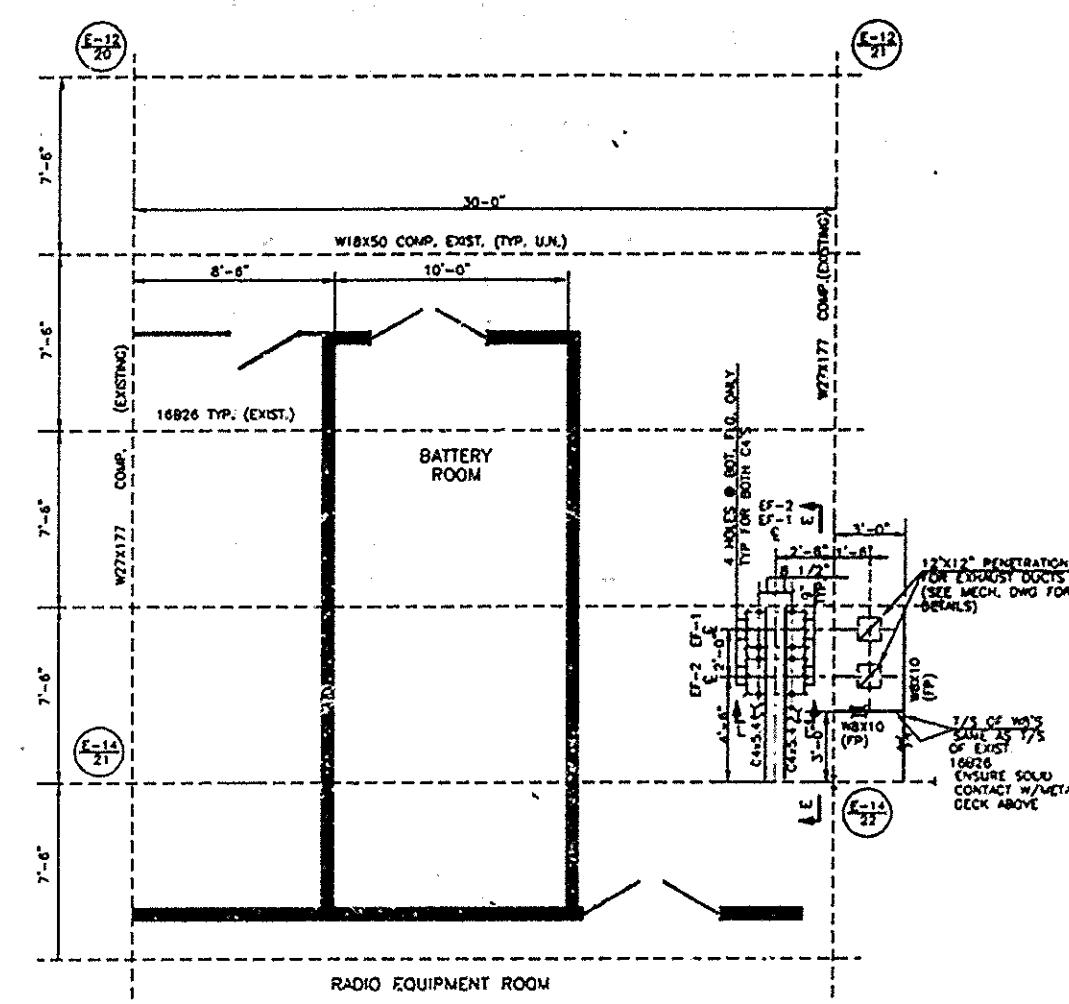
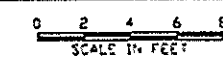
This drawing is subject to conditions of a contract. All dimensions, notes, details and methods herein are reserved to Fort Authority, and may not be used without its written consent.

AS SC AS  
Designed by Drawn by Checked by  
Date: \_\_\_\_\_  
Contract Number: \_\_\_\_\_ Drawing Number: \_\_\_\_\_  
WTC-945.071 S-801

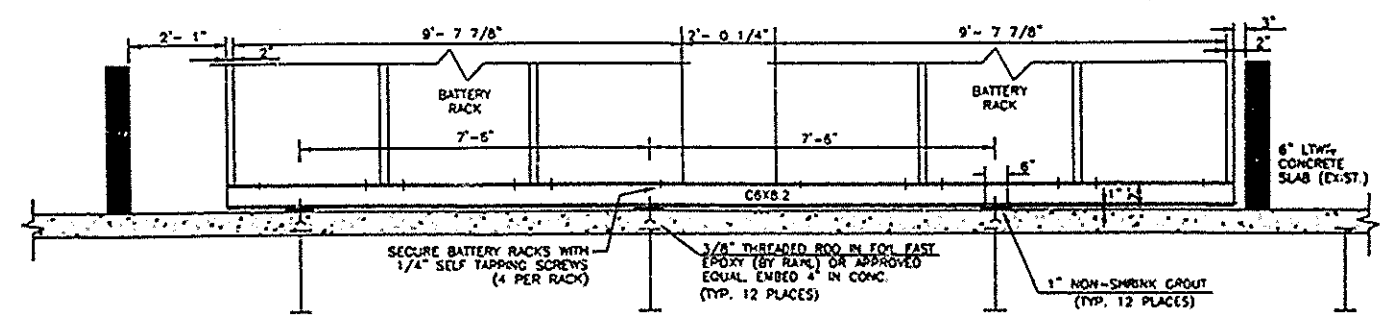


- 1) TOPS OF ALL CB'S SHALL BE INSTALLED ACCURATELY AT SAME ELEVATION AND SHALL BE LEVEL.
- 2) CLEAN EXISTING CONCRETE SURFACE THOROUGHLY BY WIRE BRUSH BEFORE PLACING GROUT.
- 3) PAINT ALL STRUCTURAL STEEL AS PER STEEL NOTES #11.

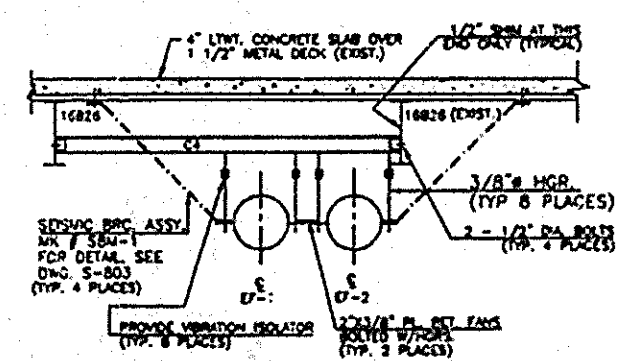
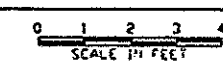
**PARTIAL PLAN - BATTERY ROOM (9th FLOOR)**



**PARTIAL PLAN - FAN SUPPORT EF-1, EF-2 (10th FLOOR LEVEL)**



**SECTION A-A**



**SECTION E-E**

